



Anti-human SOCS-5 Antibody

ORDERING INFORMATION

Catalog Number: AF4796

Lot Number: CAUW01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

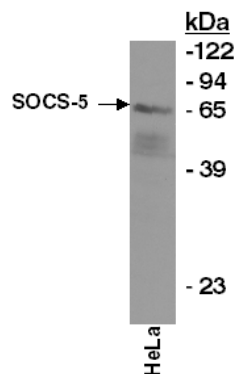
Reconstitution: sterile PBS

Specificity: human SOCS-5

Immunogen: *E. coli*-derived rhSOCS-5

Ig Type: goat IgG

Applications: Western blot
Immunocytochemistry
Direct ELISA



Detection of SOCS-5 with AF4796. Cell lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 µg/mL goat anti-hSOCS-5.

Background

SOCS-5 (Suppressor of cytokine signaling 5; also CIS-6) is a 55 - 60 kDa member of the SOCS family of proteins. It is an SH2-domain containing cytoplasmic adaptor protein expressed by Th1 cells that is known to reduce the expression of the EGF receptor and block signaling by the IL-4 R α chain. Human SOCS-5 is 536 amino acids (aa) in length. It contains one SH2 domain (aa 381 - 476) and a SOCS box (aa 471 - 520) that mediates interaction with E3 ubiquitin ligase complexes. Full-length SOCS-5 is 94% aa identical to mouse SOCS-5.

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human SOCS-5 (rhSOCS-5; aa 1 - 536; Accession # O75159). Human SOCS-5 specific IgG was purified by human SOCS-5 affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human SOCS-5 in the applications listed below.

Applications

Western blot - An antibody concentration of 1.0 µg/mL is recommended.

Immunocytochemistry - This antibody has been used at a concentration of 10 µg/mL to detect human SOCS-5 in HeLa cells. Cells were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature and blocked with PBS containing 10% normal donkey serum, 0.1% Triton X[®]-100, and 1% BSA for 45 minutes at room temperature. After blocking, cells were incubated with diluted primary antibody for 3 hours at room temperature followed by R&D Systems NorthernLights™ 557 donkey anti-goat IgG (Catalog # NL001) at room temperature for 1 hour. Between each step, cells were washed with PBS containing 0.1% BSA.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human SOCS-5. The detection limit for rhSOCS-5 is approximately 1.3 ng/well. In direct ELISAs, this antibody shows less than 1% cross-reactivity with rhSOCS-1, -2, -3, -6, and -7.

Optimal dilutions should be determined by each laboratory for each application.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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